

AMENDMENTS TO THE CLAIMS

Claims 1 to 40 (Cancelled)

41. (New) An isolated nucleic acid molecule comprising a polynucleotide sequence selected from the group consisting of:

(a) an isolated polynucleotide encoding a polypeptide comprising amino acids 1 to 506 of SEQ ID NO:2; and

(b) an isolated polynucleotide encoding a polypeptide comprising amino acids 2 to 506 of SEQ ID NO:2.

42. (New) The isolated nucleic acid molecule of Claim 41, wherein said polynucleotide is (a).

43. (New) The isolated nucleic acid molecule of Claim 42, wherein said polynucleotide comprises nucleotides 1 to 1518 of SEQ ID NO:1.

44. (New) The isolated nucleic acid molecule of Claim 41, wherein said polynucleotide is (b).

45. (New) The isolated nucleic acid molecule of Claim 44, wherein said polynucleotide comprises nucleotides 4 to 1518 of SEQ ID NO:1.

46. (New) A recombinant vector comprising the isolated nucleic acid molecule of Claim 41.

47. (New) An isolated recombinant host cell comprising the vector of Claim 46.

48. (New) A method of making an isolated polypeptide comprising:

(a) culturing the isolated recombinant host cell of Claim 47 under conditions such that said polypeptide is expressed; and

(b) recovering said polypeptide.

49. (New) The isolated nucleic acid molecule of Claim 41 further comprising a heterologous nucleic acid sequence.

50. (New) The isolated nucleic acid molecule of Claim 49 wherein said heterologous nucleic acid sequence encodes a heterologous polypeptide.

51. (New) An isolated nucleic acid molecule comprising a polynucleotide having a nucleotide sequence that is at least 95.0% identical to a polynucleotide sequence provided in Claim 41, wherein percent identity is calculated using a CLUSTALW global sequence alignment

using default parameters, wherein said isolated nucleic acid molecule specifically hybridizes under stringent conditions to SEQ ID NO:1, and wherein said stringent conditions are at least as stringent as an overnight incubation at 42 degree C in a solution comprising 50% formamide, 5x SSC (750 mM NaCl, 75 mM trisodium citrate), 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA, followed by washing the filters in 0.1x SSC at about 65 degree C.

52. (New) An isolated nucleic acid molecule comprising a polynucleotide that encodes a polypeptide that is at least 95.0% identical to SEQ ID NO:2, wherein percent identity is calculated using a CLUSTALW global sequence alignment using default parameters, wherein said isolated nucleic acid molecule specifically hybridizes under stringent conditions to SEQ ID NO:1, and wherein said stringent conditions are at least as stringent as an overnight incubation at 42 degree C in a solution comprising 50% formamide, 5x SSC (750 mM NaCl, 75 mM trisodium citrate), 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA, followed by washing the filters in 0.1x SSC at about 65 degree C.

53. (New) An isolated nucleic acid molecule encoding a polypeptide comprising at least 302 contiguous amino acids of SEQ ID NO:2.

54. (New) The isolated nucleic acid molecule of Claim 53, wherein said nucleic acid comprises at least 906 contiguous nucleotides of SEQ ID NO:1.

55. (New) An isolated nucleic acid molecule comprising the cDNA clone contained in plasmid HBMYP2X7V AD3 in ATCC Deposit No. PTA-5898.

56. (New) An isolated nucleic acid molecule comprising the complementary sequence of (a) or (b) of Claim 41.

57. (New) An isolated nucleic acid molecule comprising a polynucleotide sequence encoding amino acids 1 to 302 of SEQ ID NO:2.

58. (New) The isolated nucleic acid molecule of Claim 57, wherein said polynucleotide comprises nucleotides 1 to 906 of SEQ ID NO:1.

59. (New) An isolated nucleic acid molecule comprising a polynucleotide sequence encoding amino acids 205 to 506 of SEQ ID NO:2.

60. (New) The isolated polynucleotide of Claim 59, wherein said polynucleotide comprises nucleotides 613 to 1518 of SEQ ID NO:1.